

Amendments to the Claims

Please cancel claims 1-29.

Please add claims 30-49 as set forth below.

A complete listing of all claims in this application is set forth below. This listing will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claims 1-29 (canceled).

30. (new) A miter saw assembly, comprising:
a base defining a plurality of detent recesses;
a turntable rotatable in relation to said base;
a cutting tool operable to cut a work piece positioned on said turntable;

and

an adjustment mechanism attached to said turntable and including (i) a yoke having a first wall and a second wall that are spaced apart from each other, said first wall defining a first opening, and said second wall defining a second opening, (ii) a threaded rod extending through said first opening and said second opening, and (iii) an insert interposed between said first wall and said second wall, said insert defining an internally threaded passage through which said threaded rod extends,

wherein said adjustment mechanism is movable between (i) a first position in which said insert is positioned in one of said plurality of detent recesses, and (ii) a second position in which said insert is spaced apart from all of said plurality of detent recesses, and

wherein, when said adjustment mechanism is positioned in said first position, rotation of said threaded rod causes said turntable to rotate in relation to said base.

31. (new) The miter saw assembly of claim 30, wherein:
rotation of said threaded rod causes said insert to move in relation to said threaded rod along an axis of said threaded rod, and
movement of said insert in relation to said threaded rod along said axis of said threaded rod causes said turntable to rotate in relation to said base.

32. (new) The miter saw assembly of claim 30, wherein said adjustment mechanism further includes a control knob attached to an end portion of said threaded rod.

33. (new) The miter saw assembly of claim 30, wherein:

said insert defines a first lateral surface, a second lateral surface, a front facing surface and a rear facing surface,

said internally threaded passage extends from said first lateral surface to said second lateral surface,

said adjustment mechanism further has a front guide wall and a rear guide wall,

said front facing surface of said insert is positioned adjacent to said front guide wall, and

said rear facing surface of said insert is positioned adjacent to said rear guide wall.

34. (new) The miter saw assembly of claim 30, wherein said adjustment mechanism pivots between said first position and said second position about a first axis.

35. (new) The miter saw assembly of claim 34, wherein:

said threaded rod defines a second axis, and

said first axis is substantially perpendicular to said second axis.

36. (new) An assembly, comprising:

a base defining a plurality of detent recesses;

a turntable rotatable in relation to said base;

a cutting tool operable to cut a work piece positioned on said turntable;

and

an adjustment mechanism including (i) a first wall defining a first opening, (ii) a second wall spaced apart from said first wall and defining a second opening, (iii) a threaded rod extending through said first opening and said second opening, and (iv) a detent member interposed between said first wall and said second wall, said detent member defining an internally threaded passage through which said threaded rod extends,

wherein said adjustment mechanism is movable between (i) a first position in which said detent member is positioned in one of said plurality of detent recesses, and (ii) a second position in which said detent member is spaced apart from all of said plurality of detent recesses, and

wherein, when said adjustment mechanism is positioned in said first position, rotation of said threaded rod causes said turntable to rotate in relation to said base.

37. (new) The assembly of claim 36, wherein:

rotation of said threaded rod causes said detent member to move in relation to said threaded rod along an axis of said threaded rod, and

movement of said detent member in relation to said threaded rod along said axis of said threaded rod causes said turntable to rotate in relation to said base.

38. (new) The assembly of claim 36, wherein said adjustment mechanism further includes a control knob attached to an end portion of said threaded rod.

39. (new) The assembly of claim 36, wherein:

said detent member defines a first lateral surface, a second lateral surface, a front facing surface and a rear facing surface,

said internally threaded passage extends from said first lateral surface to said second lateral surface,

said adjustment mechanism further has a front guide wall and a rear guide wall,

said front facing surface of said detent member is positioned adjacent to said front guide wall, and

said rear facing surface of said detent member is positioned adjacent to said rear guide wall.

40. (new) The assembly of claim 36, wherein said adjustment mechanism pivots between said first position and said second position about a first axis.

41. (new) The assembly of claim 40, wherein:

said threaded rod defines a second axis, and

said first axis is substantially perpendicular to said second axis.

42. (new) An assembly, comprising:

a base defining a plurality of detent recesses;

a turntable rotatable in relation to said base;

a cutting tool operable to cut a work piece positioned on said turntable;

and

an adjustment mechanism attached to said turntable and including (i) a support structure, (ii) an actuator supported by said support structure, and (iii) a detent member, and

wherein said adjustment mechanism is movable between (i) a first position in which said detent member is positioned in one of said plurality of detent recesses, and (ii) a second position in which said detent member is spaced apart from all of said plurality of detent recesses, and

wherein, when said adjustment mechanism is positioned in said first position, movement of said actuator causes said turntable to rotate in relation to said base.

43. (new) The assembly of claim 42, wherein:

said support structure defines a first opening and a second opening,

said actuator includes a rod that extends through both said first opening and said second opening, and

rotation of said rod causes said turntable to rotate in relation to said base.

44. (new) The assembly of claim 42, wherein:

said actuator includes an externally threaded rod,

said detent member includes an internally threaded passage, and

said externally threaded rod extends through said internally threaded passage.

45. (new) The assembly of claim 42, wherein:

 said support structure includes a first wall, a second wall, a third wall, and a fourth wall arranged to define a space in which said detent member is positioned,

 said first wall defines a first opening,

 said second wall defines a second opening,

 said actuator extends through both said first opening and said second opening,

 said detent member is interposed between said first wall and said second wall,

 said detent member is interposed between said third wall and said fourth wall, and

 said detent member includes a passage through which said actuator extends.

46. (new) The assembly of claim 42, wherein said adjustment mechanism pivots between said first position and said second position about a first axis.

47. (new) The assembly of claim 46, wherein:

 said actuator includes a threaded rod that defines a second axis, and
 said first axis is substantially perpendicular to said second axis.

48. (new) The assembly of claim 42, wherein said actuator includes an elongate member and a control knob attached to an end of said elongate member.